

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/28021

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 31/4745, 31/5377 ; C07D 471/04, 413/14
 US CL : 514/293, 232.8 ; 546/82 ; 544/126

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 514/293, 232.8 ; 546/82 ; 544/126

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 STN STRUCTURE SEARCH, FILE CAPLUS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,698,348 (GERSTER, J.F) 06 October 1987 (06.10.1986), see claims 1-6.	1-54

Further documents are listed in the continuation of Box C. See patent family annex.

Special categories of cited documents:	
"A"	document defining the general state of the art which is not considered to be of particular relevance
"E"	earlier application or patent published on or after the international filing date
"L"	document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
"O"	document referring to an oral disclosure, use, exhibition or other means
"P"	document published prior to the international filing date but later than the priority date claimed
	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
	"A&" document member of the same patent family

Date of the actual completion of the international search

10 December 2004 (10.12.2004)

Date of mailing of the international search report

03 FEB 2005

Name and mailing address of the ISA/US
 Mail Stop PCT, Attn: ISA/US
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Cecilia Tsang

Telephone No. (703)308-1235

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITYTo:
DEAN A. ERSFELD
OFFICE OF INTELLECTUAL PROPERTY COUNSEL
POST OFFICE BOX 33427
SAINT PAUL, MN 55133-3427

PCT

REC'D 07 FEB 2005

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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year) 03 FEB 2005

FOR FURTHER ACTION

See paragraph 2 below

Applicant's or agent's file reference

58914WO009

International application No.	International filing date (day/month/year)	Priority date (day/month/year)
PCT/US04/28021	27 August 2004 (27.08.2004)	27 August 2003 (27.08.2003)
International Patent Classification (IPC) or both national classification and IPC		
IPC(7): A61K 31/4745, 31/5377 ; C07D 471/04, 413/14 and US Cl.: 514/293, 232.8 ; 546/82 ; 544/126		

Applicant

3M INNOVATIVE PROPERTIES COMPANY

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer Cecilia Tsang Telephone No. (703)308-1235
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Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/28021

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

a sequence listing
 table(s) related to the sequence listing

b. format of material

in written format
 in computer readable form

c. time of filing/furnishing

contained in international application as filed.
 filed together with the international application in computer readable form.
 furnished subsequently to this Authority for the purposes of search.

3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US04/28021

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims <u>1-54</u>	YES
	Claims <u>NONE</u>	NO
Inventive step (IS)	Claims <u>1-54</u>	YES
	Claims <u>NONE</u>	NO
Industrial applicability (IA)	Claims <u>1-54</u>	YES
	Claims <u>NONE</u>	NO

2. Citations and explanations:

Claims 1-54 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the instant compounds of formulae I, II, III, VII, IX and XI, pharmaceutical compositions containing these compounds and a method of using the compounds.

Claims 1-54 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
DEAN A. ERSFELD
OFFICE OF INTELLECTUAL PROPERTY COUNSEL
POST OFFICE BOX 33427
SAINT PAUL, MN 55133-3427

PCT

REC'D 07 FEB 2005

W/PO PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis,1)

Applicant's or agent's file reference 58914WO009		Date of mailing (day/month/year) 03 FEB 2005
FOR FURTHER ACTION See paragraph 2 below		
International application No. PCT/US04/28021	International filing date (day/month/year) 27 August 2004 (27.08.2004)	Priority date (day/month/year) 27 August 2003 (27.08.2003)
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